CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date: 22.03.2022

Aggregate Impact Value

Client	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	Sri B.M. Kiran , Contractor, Bangalore.
Name of the Work	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
BIS Code	IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	22.03.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84.5	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298.5	300.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.06	22.15	22.11

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಕೆ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date : 22.03.2022

Aggregate Gradation Test

IS : 2386 Part I

Client	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Agency	Sri B.M. Kiran , Contractor, Bangalore.
Name of the Work	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	22.03.2022

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	419	8.38	8.38	91.62	90 - 100	
9.5	465	9.30	17.68	82.32	70 - 88	
4.75	651	13.02	30.70	69.30	53 - 71	
2.36	686	13.72	44.42	55.58	42 - 58	
1.18	525	10.50	54.92	45.08	34 - 48	
0.600	555	11.10	66.02	33.98	26 - 38	
0.300	495	9.90	75.92	24.08	18 - 28	
0.150	369	7.38	83.30	16.70	12 - 20	
0.075	491	9.82	93.12	6.88	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	425	8.50	8.50	91.50	90 - 100	
9.5	551	11.02	19.52	80.48	70 - 88	
4.75	683	13.66	33.18	66.82	53 - 71	
2.36	534	10.68	43.86	56.14	42 - 58	
1.18	561	11.22	55.08	44.92	34 - 48	
0.600	548	10.96	66.04	33.96	26 - 38	
0.300	683	13.66	79.70	20.30	18 - 28	
0.150	199	3.98	83.68	16.32	12 - 20	
0.075	483	9.66	93.34	6.66	4 - 10	

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 22.03.2022

TEST REPORT

Client	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	:	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	22.03.2022

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	51	Min 45
2	Softening point, ^{0}C	53	Min. 47
3	Ductility at 27^{0}C, cm	>101	Min. 40
4	Flash Point, ^{0}C	278	Min. 220

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date : 22.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**Sri B.M. Kiran , Contractor, Bangalore.**
Name of Work	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	22.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	12.3	12.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	13.3	13.5	
	Combined Flakiness & Elongation index	25.60	26.10	

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date : 24.03.2022

Specific Gravity And Water Absorption Test

Client	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	Sri B.M. Kiran , Contractor, Bangalore.
Name of the Work	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	22.03.2022 to 24.03.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2026	2022	2025	
2	Weight of basket suspended in water	W_2 g	754	751	753	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1272	1271	1272	
4	Weight of saturated surface dry aggregate in air	W_3 g	2019	2017	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	747	746	746	
6	Weight of oven dried aggregate	W_4 g	2010	2011	2012	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.691	2.696	2.697	2.695
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.724	2.718	2.719	2.720
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.45%	0.30%	0.30%	0.35%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

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Job No: CACE/BBMP/BMK/W.No.14/2021-22 Date: 25.03.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri B.M. Kiran , Contractor, Bangalore.**
Name of the Work	:	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	25.03.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.27	9.64	9 Kn (min)
2	Marshal flow, mm	3.57	2.43	2 – 4
3	Percent air voids in Mineral Aggregate	13.58	14.25	13 – 15
4	Voids in Compacted Mix	3.85	4.31	3 – 6
5	Percent Voids filled with Bitumen	70.15	71.50	65 - 75
6	Density, g/cc	2.24	2.25	--

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Job No: CACE/BBMP/BMK/W.No.14/2021-22 Date : 25.03.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	Sri B.M. Kiran , Contractor, Bangalore.
NAME OF THE WORK	Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	25.03.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472.5	472
3. Weight of Asphalt and Mineral matter Extracted, g	27.5	28
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g (corrected)	27.5	28
7. Bitumen content in %	5.50	5.60
8. Average	5.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	12.2	12.2	2.6	97.4	90 - 100
9.5	68.9	81.1	17.2	82.8	70 - 88
4.75	92.6	173.7	36.8	63.2	53 - 71
2.36	42.5	216.2	45.8	54.2	42 - 58
1.18	36.8	253	53.5	46.5	34 - 48
0.600	50.9	303.9	64.3	35.7	26 - 38
0.300	46.3	350.2	74.1	25.9	18 - 28
0.150	35.8	386	81.7	18.3	12 - 20
0.075	46.9	432.9	91.6	8.4	4 - 10

SIEVE SIZE mm	Test 2 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.5	14.5	3.1	96.9	90 - 100
9.5	62.8	77.3	16.4	83.6	70 - 88
4.75	90.9	168.2	35.6	64.4	53 - 71
2.36	46.5	214.7	45.5	54.5	42 - 58
1.18	43.8	258.5	54.8	45.2	34 - 48
0.600	52.4	310.9	65.9	34.1	26 - 38
0.300	49.3	360.2	76.3	23.7	18 - 28
0.150	35.6	395.8	83.9	16.1	12 - 20
0.075	40.8	436.6	92.5	7.5	4 - 10

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri B.M. Kiran , Contractor, Bangalore.**

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.158	515.2	22.90
2	04.04.2022	11.04.2022	8.199	509.3	22.64
3	04.04.2022	11.04.2022	8.176	489.6	21.76

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri B.M. Kiran , Contractor, Bangalore.

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.166	732.3	32.55
2	04.04.2022	02.05.2022	8.184	716.8	31.86
3	04.04.2022	02.05.2022	8.190	724.9	32.22

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri B.M. Kiran , Contractor, Bangalore.

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.169	478.9	21.28
2	04.04.2022	11.04.2022	8.184	496.3	22.06
3	04.04.2022	11.04.2022	8.152	504.2	22.41

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Client	**: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.188	715.2	31.79
2	04.04.2022	02.05.2022	8.169	702.6	31.23
3	04.04.2022	02.05.2022	8.146	709.1	31.52

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.165	515.2	22.90
2	04.04.2022	11.04.2022	8.154	529.3	23.52
3	04.04.2022	11.04.2022	8.138	500.9	22.26

Note:

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri B.M. Kiran , Contractor, Bangalore.**

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads, drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.168	708.2	31.48
2	04.04.2022	02.05.2022	8.188	725.6	32.25
3	04.04.2022	02.05.2022	8.149	712.4	31.66

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri B.M. Kiran , Contractor, Bangalore.
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.188	515.2	22.90
2	04.04.2022	11.04.2022	8.194	509.3	22.64
3	04.04.2022	11.04.2022	8.168	498.3	22.15

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.168	511.2	22.72
2	04.04.2022	11.04.2022	8.179	488.9	21.73
3	04.04.2022	11.04.2022	8.152	476.3	21.17

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri B.M. Kiran , Contractor, Bangalore.**

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.184	705.2	31.34
2	05.04.2022	03.05.2022	8.136	716.9	31.86
3	05.04.2022	03.05.2022	8.156	728.4	32.37

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.156	512.2	22.76
2	05.04.2022	12.04.2022	8.138	500.9	22.26
3	05.04.2022	12.04.2022	8.149	476.9	21.20

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Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri B.M. Kiran , Contractor, Bangalore.

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.184	715.2	31.79
2	05.04.2022	03.05.2022	8.165	726.9	32.31
3	05.04.2022	03.05.2022	8.150	732.1	32.54

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.188	505.2	22.45
2	05.04.2022	12.04.2022	8.194	516.9	22.97
3	05.04.2022	12.04.2022	8.165	488.9	21.73

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ಜ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಪಾಲಿಕೆಯುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No: CACE/BBMP/BMK/W.No.14/2021-22 Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri B.M. Kiran , Contractor, Bangalore.
Name of the work	: Construction of drain and other development works at 8th cross construction of road footpath and Bagalagunte 9th 10th cross roads, drilling of Borewells and pipelines at selected area and Construction and repairs UCD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.184	705.2	31.34
2	05.04.2022	03.05.2022	8.166	716.3	31.84
3	05.04.2022	03.05.2022	8.192	700.9	31.15

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಎಂಜಿನಿಯರ
ಶ್ರೀ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಕೆ.ವಿ.ಕೆ
ಬೆಂಗಳೂರು 560073

Authorised Signatory

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri B.M. Kiran , Contractor, Bangalore.**

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.188	504.2	22.41
2	05.04.2022	12.04.2022	8.194	476.9	21.20
3	05.04.2022	12.04.2022	8.165	489.3	21.75

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22

Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri B.M. Kiran , Contractor, Bangalore.**

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.180	715.2	31.79
2	05.04.2022	03.05.2022	8.188	709.8	31.55
3	05.04.2022	03.05.2022	8.176	722.9	32.13

Note:

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri B.M. Kiran , Contractor, Bangalore.**
Name of the work	: Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.198	505.2	22.45
2	05.04.2022	12.04.2022	8.165	516.9	22.97
3	05.04.2022	12.04.2022	8.128	524.8	23.32

Note:

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Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri B.M. Kiran , Contractor, Bangalore.

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.198	715.2	31.79
2	05.04.2022	03.05.2022	8.168	724.6	32.20
3	05.04.2022	03.05.2022	8.184	738.2	32.81

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BMK/W.No.14/2021-22 Date: 13.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri B.M. Kiran , Contractor, Bangalore.

Name of the work : Construction CC drain and other development works at 6th cross construction of road footpath and Bagalagunte 9th 10th cross roads. drilling of Borewells and pipelines at selected area and Construction and repairs UGD in Bagalagunte ward no.14in Dasarahalli Assembly Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2022	13.04.2022	8.198	505.2	22.45
2	06.04.2022	13.04.2022	8.166	516.3	22.95
3	06.04.2022	13.04.2022	8.154	498.3	22.15

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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